

March	2006	2006	Phytophthera ramorum (Sudden Oak Death)
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Significant changes from 2005 SOD format for national nursery survey

- a. eliminated 2 fields: inspection team (former field 25)
inspection time (former field 26)

Field 23 The Lab-Sample-ID is still required on all field samples sent for diagnosis.

Field 24 The zip code of the inspection site or its latitude/longitude coordinates (in degrees/minutes/seconds) is still required.

- ```
b. field 7 risk category now only 2 choices
 43050 plant dealer (nursery)
 43060 plant grower (nursery)
```

Please read the 2006 user's guide for definitions and background information which are online.

USDA web site at:

<http://www.aphis.usda.gov/ppq/ispm/pramorum/surveyplan06/index.html>

or via CAPS restricted site: <http://ceris.purdue.edu/caps/pubs.html>

- c. field 17      sampled plant count      leave blank

- d. field 01 Observation-number for consistency with other NAPIS data entry protocols the 2006 SOD observatio-number has been reduced to ten(10) characters.

Please enter a value of your own format choosing that uniquely identifies each site inspected, each survey sample, and non-sample observation(s) made at each site.

Maximum field size is 10 characters.

- e. NAPIS data records for this survey should be recording one of two types of observation.

First, the results for each field survey sample that is taken and submitted to a laboratory should be recorded as a separate record.

Regardless of how many different lab "tests/procedures/runs" that may be done on the amount of plant tissue submitted, a single "composite" result is recorded for that field sample.

The value placed in Field 16 (Total-units) would represent the number of plants from which tissue was taken to make up the field sample.

example data record:

0010101,20060509,13,37119,34137,,43050,,,FGHEPWN,,-,00557,0,318,2,,,503,  
90020,20050516,,PR05NC00101,28134,

The second type of SOD data record would represent non-sample inspection records for each of the major genera which are present at the site being expected.

The total number of plants of each of the major genera present at the inspection site would be entered into Field 16 (Total-Units). It is expected that these records will represent ONLY negative inspection results. Therefore Fields (19-21) and 23 would be left blank as no sample was submitted.

Field 19 Diagnostic-lab code  
20 Confirmation-Method  
21 Lab Process Date  
  
23 Lab-Sample-ID

example data record:

0011800,20060509,13,37119,01009,,43050,350620,0805424,FGHEPWN,,-,00557,0,  
318,97,,,,,,,,,28134,JG,7,

Addendum V: Worksheet for Phytophthora Ramorum March 2006

Directed National Surveys:  
National Nursery, Trace (Back or Forward), Compliance,  
Residential, Confirmed Nursery

MINIMUM ENTRY: When NO samples taken for laboratory testing

Reporting field survey information when no samples taken for lab processing.

Complete one record for each of the major genera recording number of plant(s) inspected by host(field 16).

Diagnostic lab, Confirmation-Method, Lab Processing Date,  
Sample-ID will ALL be blank.

NOTE: Zipcode (Field 24) or Location Coordinates(Fields 8,9) still is expected.

ENTRY WHEN field sample(s) are taken for lab processing:

Each field survey sample from an inspection site is entered as a separate record ONCE a final laboratory determination has been made.

Record the TOTAL number of plants making up the field sample from that host in Field 16.

| Observation Number            | Observation Date<br>[YYYYMMDD] | Data<br>Source                                             |
|-------------------------------|--------------------------------|------------------------------------------------------------|
| n u r s e r y c o d e + S S , | ( year )(month)(day)           | 11=USDA-APHIS<br>13=STATE AG<br>16=JOINT STATE/<br>Federal |

nur = inspection site  
values may be either  
(numeric or alpha or mix)

SS = counter indicating sample(s) taken  
at an inspection site

see reference file  
for additional  
choices

\*\* example suggestion:  
counter = 00 for non-sample record  
= 01 for first observed field sample

| State-County                                         | Host/site Code                                                                                                        | Host (crop)<br>Life Stage | Host(crop)<br>nursery category                                     |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------------------|
| State and county<br>FIPS code from<br>reference file | 34022 AZALEA<br>34118 RHODODENDRON<br>30057 QUERCUS SPP<br>34137 VIBURNUM<br>see CROP reference file or<br>Addendum 4 | optional                  | REQUIRED SELECTION<br>43050 - plant dealer<br>43060 - plant grower |

| Latitude                                                           | Longitude | Pest Code                               |
|--------------------------------------------------------------------|-----------|-----------------------------------------|
| Latitude/longitude for each nursery is<br>REQUIRED OR the zip code |           | Phytophthora ramorum<br>[Genus species] |

| Pest<br>Life<br>Stage | Pest Status            | Survey<br>Method       | Quantification                  |
|-----------------------|------------------------|------------------------|---------------------------------|
| Leave<br>BLANK        | - NEGATIVE<br>+B APHIS | National<br>survey for | 0 - no symptomatic plants<br>or |

(Diagnostic P. ramorum  
lab confirmed)

0 - lab sample is negative  
1 - lab sample is positive

| Descriptor                             | Total Plants                           |                                        | Observation                            | Diagnostic                             |
|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| Units                                  | Checked                                |                                        | Duration                               | Lab                                    |
| -- -- -- -- -- -- -- -- -- -- -- -- -- | -- -- -- -- -- -- -- -- -- -- -- -- -- | -- -- -- -- -- -- -- -- -- -- -- -- -- | -- -- -- -- -- -- -- -- -- -- -- -- -- | -- -- -- -- -- -- -- -- -- -- -- -- -- |
| 3 1 8 ,                                | ,                                      | blank ,                                | blank ,                                | ,                                      |
| Plants                                 | TOTAL # of plants                      |                                        | see                                    | check                                  |
| file see                               | inspected/species/nursery              |                                        | below                                  | reference                              |

example(s)  
below

| Confirmation                           | Laboratory [YYYYMMDD]                  | Biocontrol                             |
|----------------------------------------|----------------------------------------|----------------------------------------|
| Method                                 | Process-date                           | Target                                 |
| -- -- -- -- -- -- -- -- -- -- -- -- -- | -- -- -- -- -- -- -- -- -- -- -- -- -- | -- -- -- -- -- -- -- -- -- -- -- -- -- |
| ,                                      | ,                                      | Leave BLANK ,                          |
| ELISA neg. 90020                       | date lab test completed                |                                        |
| PCR neg. 90110                         |                                        |                                        |
| PCR pos. 90111                         |                                        |                                        |

| Sample ID                              | Zip Code                               |
|----------------------------------------|----------------------------------------|
| -- -- -- -- -- -- -- -- -- -- -- -- -- | -- -- -- -- -- -- -- -- -- -- -- -- -- |
| ,                                      | ,                                      |
| -- -- -- -- -- -- -- -- -- -- -- -- -- | -- -- -- -- -- -- -- -- -- -- -- -- -- |

Sample ID = less than or equal 12 positions for either NPDN/state/federal  
number NOT required for non-lab sample records

Zip code = 5 digits; EITHER Zip code or Latitude/Longitude IS REQUIRED

| Notes                                         |
|-----------------------------------------------|
| -- -- -- -- -- -- -- -- -- -- -- -- --        |
| -- -- -- -- -- -- -- -- -- -- -- -- --        |
| Positions 1-40 are available for general use. |

SUMMARY RECORD example record for negative nursery site observation

(NO symptomatic plants were found for a unique host species/nursery site  
combination.) Diagnostic-lab, Confirmation-Method, Lab-Process Date, and  
Sample-ID fields are left blank. A grower was visited and 145 total plants  
inspected.

1230400,20060501,13,18157,34118,,43060,,,FGHEPWN,,-,00557,0,318,145,  
,,,,,,47905,BENNETTS

#### Field survey sample record:

Each field survey sample is to be entered as its own separate record after laboratory confirmation of the sample's negative or positive status has occurred. The protocol followed to make a final determination of *P. ramorum* positive may take a sample through multiple laboratories and several diagnostic techniques. At any step, a negative result might occur. Following a negative laboratory outcome, a sample's result is complete. A record is created and entered into NAPIS.

The only time a positive entry for a sample occurs is after an APHIS designated laboratory returns a positive confirmation.  
(see last example)

| lab Process | test                  | results    | lab code | date YYYYMMDD | comments |
|-------------|-----------------------|------------|----------|---------------|----------|
| =====       |                       |            |          |               |          |
| B.          | Elisa test - serology | neg. 90020 |          |               |          |

If sample results are negative, test is complete; enter results.

1230501,20060510,13,18157,34022,,43050,,,FGHEPWN,,-,00557,0,318,  
4,,,849,90020,20060608,,IN001,47902,out-of-state-plants

| lab process | results             | lab        | date YYYYMMDD | comments |
|-------------|---------------------|------------|---------------|----------|
| =====       |                     |            |               |          |
| C.          | PCR detection (DNA) | neg. 90110 |               |          |

If sample results are negative from Beltsville or a provisionally approved lab, test is complete; enter results.

1280301,20060701,13,18157,34137,,43050,,,FGHEPWN,,-,00557,0,318,  
3,,,849,90110,20060702,,IN0515714,47905,imports from California

If PCR positive results occur then DNA extraction is done and material is sent to Dr. Loraine Levy's lab (USDA/APHIS/CPHST) for final confirmation.

| lab Process | results             | lab        | date YYYYMMDD | comments |
|-------------|---------------------|------------|---------------|----------|
| =====       |                     |            |               |          |
| D.          | culture (selective) | neg. 90040 |               |          |

If sample results are negative, test is NOT complete.  
Send sample for PCR confirmation. For data entry use, example C above

as a guide.

If culture positive results occur then a sample is submitted for final confirmation to Dr. Mary Palm's lab, (USDA/APHIS) Beltsville, MD.

APHIS/USDA RESULTS:

|               | results    | lab | lab Process<br>date<br>YYYYMMDD | comments-example    |
|---------------|------------|-----|---------------------------------|---------------------|
| =====         | =====      | === | =====                           | =====               |
| E. culture    | pos. 90041 | 591 |                                 | USDA results M Palm |
| PCR Detection | neg. 90110 | 593 |                                 | USDA results L Levy |
| PCR Detection | pos. 90111 | 593 |                                 | USDA results L Levy |

USDA determines symptomatic sample to be negative.

1260501,20060430,13,18157,34036,,43050,,,FGHEPWN,,-,00557,0,318,  
3,,,593,90110,20060620,,678912355112,47906,

PCR Detection positive is from Dr. L. Levy's lab:

1220201,20060601,13,18157,34022,,43050,,,FGHEPWN,,+B,00557,1,318,  
4,,1,593,90111,20060620,,123456123411,47903,quarantine order